

Serial No. 10/023,184
Docket No. 21398-PA-DIV

Claims 1-5 (previously cancelled).

6. (currently amended). ~~An electrostatic device~~ A system for producing ozone through corona discharge comprising a) an electrostatic device used in the production of ozone comprising at least one metallic sharp-tipped component mounted on a metallic surface which in turn is mounted on an insulator, and wherein said electrostatic device is mounted in a negatively charged fly ash stream to produce ozone b) a stream source of negatively charged fly ash particles configured to impart sufficient charge to said at least one metallic sharp-tipped component to generate an electric field thereto to produce ozone through corona discharge thereby ozonizing said fly ash particles.

7. (currently amended). The ~~electrostatic device~~ system of claim 6 wherein the metallic surface is cylindrical and metal-tipped components surround the cylindrical surface.

8. (currently amended). The ~~electrostatic device~~ system of claim 6 wherein the metallic sharp-tipped component is a spike coming to a sharp point or a wire coming to a sharp point.

9. (currently amended). The ~~electrostatic device~~ system of claim 6 disposed set in a pipe receiving a said stream source of negatively charged fly ash particles and wherein a baffle has been placed up-stream of the ~~electrostatic device~~ system to prevent fly ash abrasion of the metal components of ~~electrostatic device~~ system.

10. (currently amended). In combination ~~an electrostatic device~~ a system used in the production of ozone comprising a metal surface having at least one metallic sharp-tipped component on the surface thereof mounted in a non-metallic pipe carrying a fly ash stream and used in said pipe to produce ozone through corona discharge.

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11. (currently amended). In a device system through which charged particles of fly ash with unacceptably high levels of carbon flow comprising a channel containing therein a metal plate having a flat surface with at least one metal spike on said flat surface capable of producing ozone through corona discharge and wherein negatively charged fly ash particles with carbon impinge said metal spike on the flat surface of the metal plate.

12. (currently amended). In the device system of claim 11 wherein the metal plate is supported on an insulated base so that the metal plate, having at least one spike thereon, can be placed in a pipe and such that negatively charged carbon containing fly ash particles impinge ~~the plate~~; said at least one spike creating a corona discharge producing ozone which will contact and pacify the carbon containing fly ash.

13. (currently amended). In a device system through which negatively charged particles of fly ash with unacceptably high levels of carbon flow comprising a channel containing therein a metal plate with a flat surface having affixed on said flat surface a series of wires or spikes capable of producing ozone through corona discharge when said negatively charged particles impact said series of wires or spikes.